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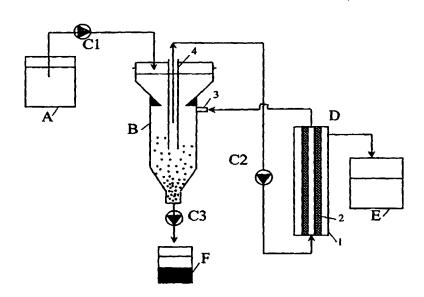
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**(54) Title:** PROCESS FOR THE CONTINUOUS PRODUCTION OF DIPEPTIDE CRYSTALS IN A MEMBRANE AND HYDRO-CYCLONE REACTOR USING A PEPTIDASE



(57) Abstract: The invention relates to a process for the production of dipeptide crystals (generic formula AcXYNH<sub>2</sub>) with high purity (> 95 %), by enzymatic synthesis with a protease in organic media of reversed micelles, starting from derivatives of the two constituent amino acids (AcXOEt and YNH2). A membrane and hydro-cyclone reactor was designed which enables the continuous and simultaneous synthesis and crystallisation of the dipeptides. The dipeptide crystals thus prepared are continuously removed and further separated from the remaining liquid by filtration or centrifugation. After drying, the crystals are dissolved in hot methanol. By decreasing the temperature, the dipeptide re-crystallises, originating a high purity product. After re-crystallisation the product is filtered and dried.

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